19981010.qrp v01_n240.qrs.981010

Date: Sat, 10 Oct 1998 19:03:16 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1240

QRP-L Digest 1240

Topics covered in this issue include:

    by John Bates <batesjw@netspace.net.au>
 44) [21984] 80 METERS
    by "david r" <elbc@pivot.net>
 45) [21985] Pixie's Progress -- got KY, also -- Need Help re audio limiter
circuit
    by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
 46) [21986] re:Fox: How To Bag A Pelt using RIT
    by MJC191@aol.com
 47) [21987] NW QRP Club Meeting Today
    by "Bill Todd" <bill@willapabay.org>
 48) [21988] WQ8RP
    by Bruce Rattray <rattray@gpfn.sk.ca>
 49) [21989] I got my Extra!
    by Shephed@aol.com
 50) [21990] Wanted
    by Mercxx@aol.com
 51) [21991] Re: [CW] Purchase a new transceiver
    by marion@montana.com
 52) [21992] Re: FOX hunting tips
    by gsurrency@juno.com (Gary L Surrency)
 53) [21993] 80 METERS
    by Niels Jensen Kristjansson <nkristja@cadvision.com>
 54) [21994] W5QJR ANTENNA
    by ARDUJENSKI@aol.com
 55) [21995] SMT circuit boards
    by applitech@mcg.net (Claton Cadmus)
 56) [21996] PORTABLE ANTENNA MAST BASE
    by ARDUJENSKI@aol.com
 57) [21997] Re: Oxidized Switch Contacts
    by Arjen Raateland <Arjen.Raateland@vyh.fi>
 58) [21998] re: Oxidized contacts
    by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
 59) [21999] Texas Armadillo Chase
    by kq0i@juno.com (Mark R Milburn)
 60) [22000] Re: Coherent CW
    by astone@erols.com
 61) [22001] the Subject line
    by Bob Edwards <w4ed@flash.net>
 62) [22002] Re: Art Bell
    by Ab7wy@aol.com
 63) [22003] Re: 80 METERS
    by "david r" <elbc@pivot.net>
 64) [22004] Pacificon 6 Pack Parts, 44 Magnum Prizes
    by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
 65) [22005] Re: I got my Extra!
    by "KE6VHM Frank" <ke6vhm@earthlink.net>
 66) [22006] G3RJV Six Pack Parts Kit Price
    by ki6ds@dpol.k12.ca.us (Hendricks, Doug)

 67) [22007] KI6DS Not in Inner Circle of ARCI
     by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
 68) [22008] FOX: New Fox Team
     by Joe Gervais <vole@primenet.com>
 69) [22009] Re: Flaming: STOP
     by ka1iic <ka1iic@ime.net>
 70) [22010] SMALL HB GEN SET INFO SOURCE
     by ARDUJENSKI@aol.com

Date: Fri, 09 Oct 98 19:02:59 -0400
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
"bahr521@earthlink.net" <bahr521@earthlink.net>
Subject: [21941] Re: All - Re: SGC 2020 comments
Message-ID: <199810092305.XAA87488@out1.ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

On Thu, 08 Oct 1998 23:05:52 -0500, Lee Bahr wrote:

>This is the reason women hit the glass ceiling. (Just curious, your a Democrat,
>right?) Lee

What kind of a sexist bigoted remark is this??? OH, and I *am* a
Democrat. What in the world is wrong with that? I thought this country
permitted a diversity of political opinion.

I am a successful, professional, *female* engineer, and have *not* hit any
glass ceiling in my career. I find your comments insensitive, insulting,
and demeaning. Maybe this is why most women are turned off by this hobby?
Most guys in the hobby are fine, but a few just have to be boorish
chauvanists, don't they???

Angrily,
Cait Martin
KU4QD

____
Caitlyn M. Martin   "They have computers, and may have
cait.martin@ibm.net   other weapons of mass
http://www.angelfire.com/nc/caitmartin   destruction" -Janet Reno
____

Date: Fri, 9 Oct 1998 16:52:28 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@lehigh.edu
Subject: [21942] Flaming: STOP
Message-ID: <19981009.165229.9750.3.gsurrency@juno.com>

OK. I've had quite enough of this.

Those of you who feel it necessary to continue this flame war, GET IT OFF THIS LIST AND KEEP IT PRIVATE! Don't keep adding comments and fuel to the fire.

Most of us would just like to get on with polite discussions of QRP related topics. If you had read the QRP-L FAQ file, you would know that.

With a diverse audience of over 2000 people worldwide on this list, it would make sense to try and maintain some civility in your posts. Please don't force Chuck, QRP-L #1 to intervene in this matter. I'm sure he has better things to do with his time, as do I.

Must be delayed effects from the gamma-ray burst from last August's magnetron event or something. Art Bell, where are you when we need you? =8^o

72, and now let's return to normal QRP-L discussion.....

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Date: Fri, 9 Oct 1998 16:52:55 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [21943] Fox: How to Bag a Pelt (using RIT too!)
Message-ID: <199810092352.QAA21201@usr05.primenet.com>

Howdy again All,

Wow, I was actually able to intercept and answer email
in less than 3 weeks! I'm giddy. :-)

Denny just emailed me with the following question re:
how to use RIT to better hunt the Elusive Furry Ones.

Denny (AD6EZ) wrote:
>
> Can you explain to me in 10,000 words or less how I could have used
> my RIT on my Sierra last night to UP my chances of having the Fox hear
> me? I have been reading this thread with some interest as I spent 2
> hours calling and never got a response. I know I'm a rookie at Hounding
> as well as being a ham. But after reading the RIT postings I realized
> that it may just have been that I just plain don't know how to take full
> advantage of the features on my great little rig. So, any info you can
> share with me would be very much appreciated.

First, bear in mind that there are folks far more
experienced than I at this. On the other hand, I
did happen to get lucky enough to snag 44 General+
Pelts last season, so I can't be doing things *too*
wrong. :-)

As a Hound, you can use RIT as kind of a Poor
Ham's Split-mode. I've hunted for and bagged many
Foxii using my Sierra and RIT to do just that, so
hopefully this will be spot-on, as they say across
the Pond. Details below, but first some background.

(NOTE: Some nights it's *finding* and *hearing* the
Fox that will make the difference - developing good
Ears is another topic.)

I believe it was General Gray, Commandant of the USMC,
who said. "Smarter, not harder". To catch a Fox, you
need to be smarter than the Fox. Blindly tossing your
callsign out there may be a lost cause many nights.

There are two basic methods of breaking a pileup.
Others here have written excellent blurbs on how to
do it. It boils down to two key factors:

1) Timing.
2) Location.

I'll do my best to summarize.

TIMING

Both an art and a point of contention. The best way to be heard is to send your call when nobody else is. Go figure. *8-) So you can wait a bit for the initial crush of sigs to subside, then slip your call in. This can backfire though, since you risk stomping on your target. Just like deer hunting, you need to be *very* sure when you take that shot.

Sometimes Buddha smiles upon you and, for no good reason at all, there will be a moment of quiet in the pileup. BAM! Get that callsign in there! Again, only if you're *very* sure.

Listen to how long it's taking the DX/Fox/whoever to pick out a call from the din. Use a stopwatch and time it. Really! Always in the first few seconds? 5? 15? Odds are most folks will answer as soon as they copy and write down a callsign. If they're doing it very fast, waiting to get your call in is likely to be a waste of time (though "tail-ending", a very risky yet sometimes useful strategy, is an exception).

If they're always taking longer to answer someone, sending your call ASAP after the QRZ? may not be effective either.

Just the tip of the iceberg there, but hopefully a good starting point. Next item....

LOCATION

In a *typical* pileup, you have far too many hams trying to work a sole station. Picture yourself as that poor fellow at the center of attention. Sigs EVERYWHERE! On top of each other, running together, noise noise noise. Most in that situation will tighten up their filter and start using *their* RIT and/or Split to "carve up" the pileup. With a tight filter, they'll use their RIT/Split to wander up and down the fray, picking out callsigns as they go.

Generally the DX/Target station is also hoping to keep

their xmit freq clear so folks can hear them. That works to everyone's advantage. By answering calls away from their xmit freq, they keep the pileup out of the way of their signal.

So why location? Different ops will have different patterns. Some will always be listening higher, some lower than their calling freq. Many will slowly move up or down and then back to start over, etc. You can tell by LISTENING TO WHO THEY ANSWER. After a little observation, you can figure it out. Is the lucky fellow always higher? Lower? Does it cycle? Which way?

Once you've figured it out, you can begin a little guessing. Based on what you know, where should YOU xmit next to land smack in the DX/Fox/whoever's ears?

Often a good strategy is to make sure your xmit is set to the same freq as the LAST fellow who just worked your target. You know for a fact that the DX/Fox/etc *was* listening there seconds ago. Many times they'll still be listening there. Then you get into the Timing issue above.

Other times, you may notice the target is following one of those patterns we talked about earlier. Like "Work one high, work one low, repeat." So if they just worked one high, you'd want your next call to be low. Etc. Endless variations.

Even if you guess right, you're still not likely to be the *only* sig they hear. It may take some doing, but at least you've increased your odds.

Sometimes there just won't be a pattern. The fellow may have their filter wide open and letting their ears do the work. It just depends. That's the fun of it! Keep studying your Fox. Every QSO is more data to digest and analyze. And a little "Kentucky Windage" doesn't hurt either. :)

Again, just the tip of the proverbial iceberg, but a good place to start.

"Well darnit Joe, my question was about using my
 Sierra's RIT to bag Pelts, and you gave me a sermon

on the basics!"

Fear not. Here we go.

USING YOUR RIT TO BAG A FOX: A SPECIFIC EXAMPLE

So it's Fox night, and darnit the bands are wide-open to the entire North American continent. Hundreds of Hounds. One Fox. Two hours. Doesn't look good.

But you're going to try something new. Timing and Location. You notice the Fox is picking out Hounds nearly as fast as the first calls are finished. You'll have to get in there early. In between sending failed calls, you listen to where the lucky guys are working the Elusive Furry One.

It seems that the Fox RIT's to a spot about 1KHz high or low, works a few, then moves again as the other Hounds catch on and crowd the Fox's listening freq.

You know what you have to do - xmit where the last guy bagged a Pelt, and of course listen to the Fox's xmit freq! ;-)

The Fox gets nervous and jumps. You guess wrong and miss, but the lucky Hound is very close to you. Good shot. Now here's what you do.

1) TURN OFF RIT!

2) Tune to where the Lucky Hound is. Get right on there - learning to do that is invaluable. A few hundred Hz either way can be a bummer if your prey is using a tight filter.

3) Turn on RIT. Move your rcvr to where the Fox is.

4) PRESTO!

Now when you xmit, you'll be right where the last guy got lucky, and your receiever is listening to the Fox.

You try a few times, keep missing, the Fox jumps

again. You repeat the steps above, and this time
you strike gold! You yelp and holler! You run
around the room, sprint downstairs, and start
doing the Happy Dance! Your loved ones roll their
eyes and slowly shake their heads as they try to
explain to the neighbors. The dog runs and hides.
All is well with the world. :-)

Note that a rig that has a true Spot/Split mode
makes this whole process MUCH easier to do effectively,
but we're trying to make do with what we have. RIT in
this case. Save those pennies. ;-)

Kinda long, but was hoping to help as best I could.
Hope it does. Happy Hunting, and remember, you could
go the whole season and not get a single Pelt, yet
still improve your operating skills dramatically.
Took me a few years and a few antenna re-designs to
get dangerous last season. :-)

Not sure if I met Denny's request for 10,000 words
or less. Sorry 'bout that. :)

OK, now I've *really* gotta run. Live well, play
well, radiate!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

---

Date: Fri, 9 Oct 1998 17:17:51 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [21944] FOX hunting tips
Message-ID: <19981009.171751.9750.4.gsurrency@juno.com>

For some real help in bagging the Fox, may I suggest you give resonant
loudspeakers a try? I posted a comment about them over a year ago, and a
subsequent article appeared in the Spring 1997 issue of QRPp, by WB2CWA.
Bob covered some simple math to help work out the details, but don't let
that dissuade you. A little trial and error work is easy and about as
productive, since all you need is some scrap tubing and a hacksaw.
Experiment, and then test the results. The effect is quite striking.

The ARRL's Hint and Kinks for the Radio Amateur, 13th edition, was the impetus for my work in this area. The article does not appear in the 14th edition, however. But, it's just the thing for rigs that may be a little low in audio output level, as the resonant speaker is much more efficient than non-resonant ones.

Basically, a small 2" speaker and 6" to 6 1/2" of 2 " PVC pipe is about all you'll need. Some folks on this list have reportedly used small plastic drinking cups as the resonant chamber and had good results. Remember to space the assembly off the table top an 1/8" inch or so, using some coins or old depleted coin-type batteries. They work pretty well too. Adjust the length of the PVC tube to get the resonant frequency your ears prefer, typically 600-650 Hz.

I have found this to be a good combination when used with an active audio filter, such as the one in my S&S TAC-1. It seems to be better than the inexpensive and now-discontinueed R/S DSP-40 I also have, although the R/S unit has a nice audio amp and speaker built-in.

You may find that this is just the trick you need to help dig out those weak signals during less-than-ideal band conditions. It really helps peak the signal above the band noise.

Of course, if your antenna isn't up-to-snuff, it doesn't matter how well you can *hear* the FOX. He still has to *hear* you to work you! 8^)

But, it is a worthwhile experiment. And it requires a minimum of tools and expediture to try. I recommend it to anyone who hasn't given it a try. You may be pleasantly surprised, as was I.

Tnx, and 72.

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Date: Fri, 09 Oct 1998 20:21:10 -0400
From: "David Hurley, n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [21945] Re: Fox: How to Bag a Pelt (using RIT too!)
Message-ID: <361EA876.7156982E@amsat.org>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Joe:

Thanks for the discussion on the use of RIT. I didn't have a clue.
Much more going on here then I was aware. Now I know why my contest
scores are so low.

72
David,n2zhy
Princeton,NJ
Joe Gervais wrote:
>
> Howdy again All,
>
> Wow, I was actually able to intercept and answer email
> in less than 3 weeks! I'm giddy. :-)
>
> Denny just emailed me with the following question re:
> how to use RIT to better hunt the Elusive Furry Ones.
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> Denny (AD6EZ) wrote:
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> > Can you explain to me in 10,000 words or less how I could have used
> > my RIT on my Sierra last night to UP my chances of having the Fox hear
> > me? I have been reading this thread with some interest as I spent 2
> > hours calling and never got a response. I know I'm a rookie at Hounding
> > as well as being a ham. But after reading the RIT postings I realized
> > that it may just have been that I just plain don't know how to take full
> > advantage of the features on my great little rig. So, any info you can
> > share with me would be very much appreciated.
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> First, bear in mind that there are folks far more
> experienced than I at this. On the other hand, I
> did happen to get lucky enough to snag 44 General+
> Pelts last season, so I can't be doing things *too*
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> As a Hound, you can use RIT as kind of a Poor
> Ham's Split-mode. I've hunted for and bagged many
> Foxii using my Sierra and RIT to do just that, so
> hopefully this will be spot-on, as they say across
> the Pond. Details below, but first some background.
>
> (NOTE: Some nights it's *finding* and *hearing* the

> Fox that will make the difference - developing good
> Ears is another topic.)
>
> I believe it was General Gray, Commandant of the USMC,
> who said. "Smarter, not harder". To catch a Fox, you
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> callsign out there may be a lost cause many nights.
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> There are two basic methods of breaking a pileup.
> Others here have written excellent blurbs on how to
> do it. It boils down to two key factors:
>
> 1) Timing.
> 2) Location.
>
> I'll do my best to summarize.
>
> TIMING
> ------
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> Both an art and a point of contention. The best way
> to be heard is to send your call when nobody else is.
> Go figure. *8-) So you can wait a bit for the initial
> crush of sigs to subside, then slip your call in. This
> can backfire though, since you risk stomping on your
> target. Just like deer hunting, you need to be *very*
> sure when you take that shot.
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> if you're *very* sure.
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> Listen to how long it's taking the DX/Fox/whoever
> to pick out a call from the din. Use a stopwatch and
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> they copy and write down a callsign. If they're doing
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> to be a waste of time (though "tail-ending", a very
> risky yet sometimes useful strategy, is an exception).
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> If they're always taking longer to answer someone,
> sending your call ASAP after the QRZ? may not be
> effective either.
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> LOCATION
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> Generally the DX/Target station is also hoping to keep
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> doesn't hurt either. :)
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> good place to start.
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> "Well darnit Joe, my question was about using my
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> USING YOUR RIT TO BAG A FOX: A SPECIFIC EXAMPLE
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> nearly as fast as the first calls are finished.
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> other Hounds catch on and crowd the Fox's listening
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> You know what you have to do - xmit where the last
> guy bagged a Pelt, and of course listen to the
> Fox's xmit freq! ;-)
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> The Fox gets nervous and jumps. You guess wrong and
> miss, but the lucky Hound is very close to you. Good
> shot. Now here's what you do.
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> 1) TURN OFF RIT!
>
> 2) Tune to where the Lucky Hound is. Get right on

>   there - learning to do that is invaluable. A
>   few hundred Hz either way can be a bummer if
>   your prey is using a tight filter.
>
> 3) Turn on RIT. Move your rcvr to where the Fox is.
>
> 4) PRESTO!
>
> Now when you xmit, you'll be right where the last
> guy got lucky, and your receiever is listening to
> the Fox.
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> You try a few times, keep missing, the Fox jumps
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> explain to the neighbors. The dog runs and hides.
> All is well with the world. :-)
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>
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> well, radiate!
>
> Cheers de AB7TT,
>
> -Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
> "If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

---

Date: Fri, 09 Oct 1998 17:19:11 -0700
From: "Eric Swartz - WA6HHQ, EleCraft" <erics@elecraft.com>
To: kathi2@earthlink.net
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [21946] Re: Kathi's SGC 2020 comments
Message-ID: <361EA7FD.275EF69@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Kathi,

I would like to say that your original posting to QRP-L was a fair and reasonable statement of your opinion. I certainly did not take any offense from it.

As 1/2 of Elecraft I agree that we can't even begin to lay claim to being a company with a long history manufacturing radios. Both of us are experienced industry veterans, but we -still- have to prove our worth in this new venture. (And we're working day and night to make the K2 one of the most exciting rigs to hit the ham radio market in a long time...) A great company is built on many areas besides a great product design. Reliability, excellent customer support and service, responsiveness to customer suggestions and a solid financial base come immediately to mind. Only our customers can really say when we have succeeded as a company.

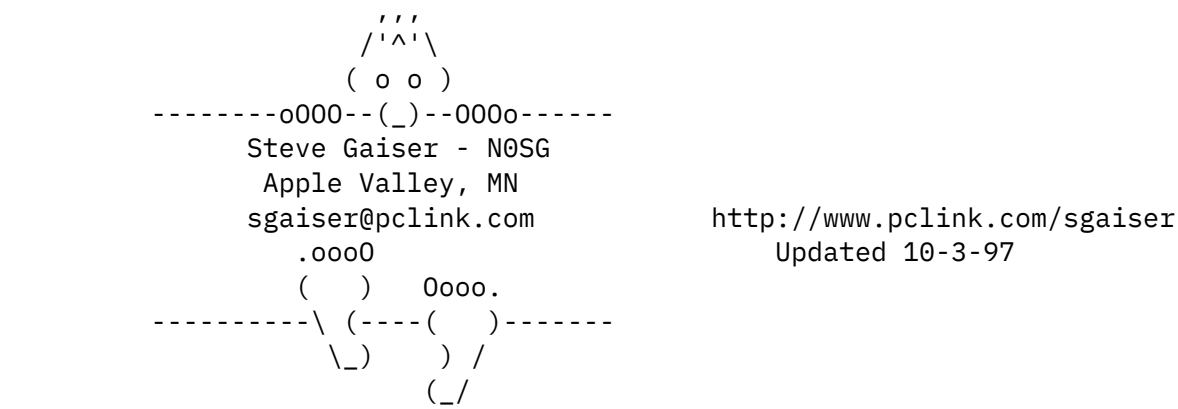
Please don't get scared away by the harsher comments posted in response to your email. We need a diversity of opinion on QRP-L. That's what keeps it interesting and alive!

73, Eric WA6HHQ
http://www.elecraft.com

Date: Fri, 09 Oct 1998 19:23:08 -0500
From: Steve Gaiser <sgaiser@pclink.com>
To: qrp-l@lehigh.edu
Subject: [21947] QRP-L and Fists #'s..
Message-ID: <3.0.3.32.19981009192308.006fe4bc@pclink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am interested in earning, obtaining, or aquiring a QRP-L # and a Fists #.
 What is the criterea for those and any other #'s available concerning QRP
and CW operation..?

Tnx es 73's



Date: Fri, 9 Oct 1998 19:31:24 -0500
From: "Craig B. Johnson" <johns516@maroon.tc.umn.edu>
To: <qrp-l@Lehigh.EDU>
Subject: [21948] Re: Fox: WQ8RP RIT vs SPLIT Operation
Message-ID: <006e01bdf3e5$699e8a20$9a185ea0@pentium>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>From: n4js@pobox.com (John Sielke)
>On Fri, 9 Oct 1998 15:48:49 -0400 (EDT), you typed:

>>I did not mention the calls and names of the people that wrote me about
>>Hank running what they called "split" and asking he be disqualified.
>>Kinda wish I could get both camps in a room locked up somewhere and let
>>them fight it out themselves while the rest of us try and work the fox
>>however possible.

>Personally, I would like to see the list. Maybe they could start a new
>team, "The Whiners"

>I can't believe ANYONE would actually complain. BTW, I was using the

>OHR400, which has RIT, but worked Hank right on his frequency.

>Hearing about these crybabies makes me feel like chucking it all...or
>just upchucking.

I agree. I can't believe we are all supposed to zero beat on the fox. We have to move around a little. That is a skill to be developed also. Good grief!

I got Clif on Tuesday, and called Hank a couple of times on Thursday. QRM was so heavy right on his frequency that it was too frustrating to continue.

Let's be reasonable.

73,
- Craig, AA0ZZ
(Another Shoreview, MN ham, and I don't even know Kathi !)

Date: Fri, 9 Oct 1998 20:29:39 EDT
From: FrConrad@aol.com
To: QRP-L@Lehigh.EDU
Subject: [21949] Lots of Heat, Not much light
Message-ID: <6f261975.361eaa73@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

To whom...

As the unauthorized, unsolicited, and (I might add) uncompensated and unappreciated self-appointed Pastoral Counselor for the list, let me offer the following overview of the Flame War dujour:

1. A woman posted an opinion of a particular piece of radio equipment.

2. Some men took umbrage with her observations, questioned her motives as well as her right to hold such opinions and tossed in a few gender-specific jabs for good measure.

3. Now we're in the process of choosing up sides and foisting all this nonsense on the VAST MAJORITY of the list members who are interested in a low-power amateur radio discussion (hence the name, thoughtfully provided at the top of the page).

Could someone please tell me why we are doing this?

Go ahead, light my incense.

John+
WB6MFS

(No pelts yet--too busy tryin' to save souls)

Date: Fri, 09 Oct 1998 17:39:15 -0700
From: "Eric Swartz - WA6HHQ, EleCraft" <erics@elecraft.com>
To: mstangelo@worldnet.att.net
Cc: QRP-L <qrp-l@Lehigh.EDU>
Subject: [21950] K2 update
Message-ID: <361EACB3.652B8288@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Mike,

We are right in the middle of getting together the 100 K2 kits to ship to our Field Testers. If all of our suppliers deliver on their stated schedules we will have the K2s out in the next 4-5 weeks. (Ask Doug Hendrix (NorCal 20) how much of a challenge it is trying to get all your vendors to supply product in volume when you need it!)

We've also been running the complete suite of ARRL performance tests on the K2 and the results look great! Our phase noise, MDS and TX Spurious & IMD are all coming in above the original numbers we expected. We will be posting actual numbers to our web site later this month after we have the whole set together.

Production K2s will ship immediately after the Field Test. (We're actually ordering parts for this run now.) By Christmas we hope there will be hundreds of K2s chasing the QRP-L fox etc... We've been cautious about taking orders outside of the Field Tester group too early, but I expect we will begin taking hard orders before the end of this month. We -are- taking names now for a K2 priority list.

We will also be at Pacificon in one week showing our K2s and giving one away at the NorCal QRP suite.

By the way, for those who don't know, I've been working full time on Elecraft and the K2 since June. My wife, who is also a ham, is beginning to wonder if she'll ever see me again!

73, Eric   WA6HHQ   http://www.elecraft.com

(Please send inquiries regarding the K2 to radios@elecraft.com)
==========
You recently wrote on QRP-L:

I've been following this thread ..... but it raises a good question...

When will the K2 be available? Does anyone have updated status?

Mike St. Angelo N2MS

Date: Fri, 9 Oct 1998 20:50:09 -0400 (EDT)
From: James Skalski <jskalski@buffnet.net>
To: FrConrad@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21951] Re: Lots of Heat, Not much light
Message-ID:
<Pine.LNX.4.03.9810092048120.1722-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I found that the best way to put out a "flame" is with my <del> key.
It is actually very simple and effective.

73,

Jim (N2GO)

Date: Fri, 9 Oct 1998 21:01:30 -0400 (EDT)
From: hsilver@pyx.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21952] Art Bell

Message-ID: <Pine.LNX.3.95.981009203349.27892D-100000@matrix.pyx.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 9 Oct 1998, Gary L Surrency wrote:
> Art Bell, where are you when we need you?

Since you invoke Art Bell's name, I hope you don't mind if I present a suggestion I have been mulling over in my mind for some time. I'll preface this with the fact I don't like the Art Bell radio program very much because of the dis-service I believe it does by presenting junk science as fact. I have sat through listening to it several times in order to formulate my opinion. I mention this because I wish to be fully open about my opinion when I present the suggestions below. This is just my own opinion and I'm very confident that others have dramatically opposite points of view.

However, the merits or the lack thereof of the Art Bell Radio program is NOT the point of this post so please, let's not get into a protracted diatribe of Art Bell Uber Alles! vs The 'I hate Art Bell' crowd.

The point of this post and my suggestion...

Art Bell is a HAM or at least claims to be one. He has a very large audience. He has mentioned his being a HAM on several occassions that I have listened to his program.

If Art Bell has control over the subject matter presented on his radio program and if Art Bell would like to help out the HAM community and the QRP community in general, would someone on this list who talks to Art Bell or knows him personally, help the growth of HAM radio and QRP by requesting that Art Bell do three or four, three hour broadcasts exclusively devoted to presenting HAM Radio and QRP to the general public from a HOBBY perspective and in LAYMAN'S terms ?

I believe that three or four programs advertised well in advance and presented in LAYMAN'S terms with care could be of enormous benefit to HAM and the QRP community because it may well spark further large scale interest in this fascinating hobby. I believe it would be beneficial to Art Bell as well. I would hope that who ever would present this to Art Bell would do so without any political agenda other than the simple promotion of HAM and QRP.

If no single person talks to or knows Art Bell well enough to recommend this, would it be possible to organize some sort of committee, formulate a list of subject such a broadcast series would contain, gather background materials and offer a presentation to Art Bell for consideration ?

Comments *other than* those involving "I like his show" or "I hate his show" would be appreciated.

Harley Silver - Toronto.
no rank, no fortune.

Date: Fri, 9 Oct 1998 21:01:35 EDT
From: ARDUJENSKI@aol.com
To: whowell@hq.nasa.gov, owner-qrp-l@Lehigh.EDU, qrp-l@Lehigh.EDU
Subject: [21953] RE: generator
Message-ID: <db95d73.361eb1ef@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

SUPER JOB SCOTT!
It was tuff getting the info until you came to the rescue. Atleast we know something about this GENERATOR.It appears we could get some good exercise for our sending writs turning the crank...but one good turn deserves another (hi hi). 5 volts may not be exactly what we are looking for but it is a start
Alan KB7MBI

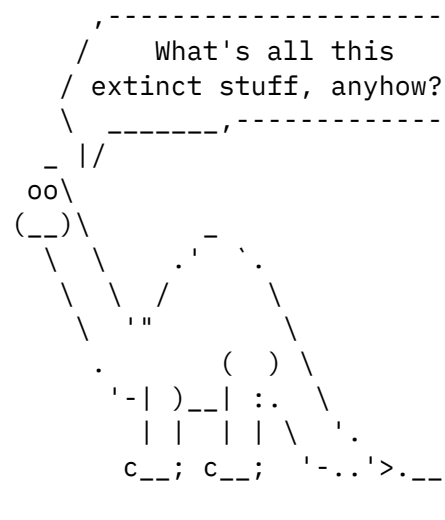
Date: Fri, 09 Oct 1998 18:10:59 -0700
From: W7LS <w7ls@blarg.net>
To: ARDUJENSKI@aol.com
Cc: qrp-l@lehigh.edu
Subject: [21954] Re: generator
Message-ID: <361EB423.3EE6@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ah, but with all the voltage conversion chips out there now, 5v can be jumped up to 12, quite easily. See Maxim and Linear Technology chips. MAX608 will do it at 85%, I think. You can even get qrp currents if you add a couple of transistors and assorted gibblets.
     73 de Jim, W7LS

ARDUJENSKI@aol.com wrote:
>
> SUPER JOB SCOTT!
> It was tuff getting the info until you came to the rescue. Atleast we know
> something about this GENERATOR.It appears we could get some good exercise for
> our sending writs turning the crank...but one good turn deserves another (hi
> hi). 5 volts may not be exactly what we are looking for but it is a start
> Alan KB7MBI

Date: Fri, 9 Oct 1998 18:19:37 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21955] Steam-Powered Radio
Message-ID: <Pine.BSI.3.96.981009181820.4778C-100000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Within the last two weeks or so, somebody posted a message to the group
about a steam-powered QRP rig that used a toy steam engine and a
permanent-magnet motor. Would that person please get in touch with me?



Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
http://www.primenet.com/~ctrask

Graphics by Loek Frederiks

Date: Fri, 9 Oct 1998 21:20:00 EDT
From: KB9OCE@aol.com
To: hsilver@pyx.net, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [21956] Re: Art Bell
Message-ID: <e42d9ba1.361eb640@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I DO like his show BUT I agree with you wholeheartedly! Have you heard any of the shows he's done with Wayne Green of 73 Magazine? Quite interesting. However it is far too rare. I too would like to hear more Ham-related programming.

73 de kb9oce (Mike)

Date: Fri, 09 Oct 1998 21:25:10 -0400
From: Clay N4AOX <wyn@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [21957] Re: Kathi's SGC 2020 comments
Message-ID: <361EB775.7F53@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Eric Swartz - WA6HHQ, EleCraft wrote:

> keeps it interesting and alive!
>
This is off topic! Those were not "low power" flames that jumped three feet out of my CRT. Picture this tired old QRPer browsing through 120 posts of this Mild Mannered QRP-L reflector when Bang! The aftermath is a minstrel-like head staring at the screen with a wisp of smoke curling up from a now bald head!

Good Gawd Kathi! What did you do, dis' a Zombie (R) (TM) Icon or something? ;-)

72/73,
Clay N4AOX

Date: Fri, 9 Oct 1998 20:28:19 -0500
From: n5inz@juno.com (John M Andrews)
To: qrp-l@Lehigh.EDU
Subject: [21958] Re: generator
Message-ID: <19981009.202819.3382.16.N5INZ@juno.com>

On Fri, 9 Oct 1998 21:01:35 EDT ARDUJENSKI@aol.com writes:
>SUPER JOB SCOTT!
>It was tuff getting the info until you came to the rescue. Atleast we
>know
>something about this GENERATOR.It appears we could get some good
>exercise for
>our sending writs turning the crank...but one good turn deserves
>another (hi
>hi). 5 volts may not be exactly what we are looking for but it is a
>start
>Alan KB7MBI
>
>
Hi Alan:

Several days ago I posted info that BG Micro in Dallas has a
AM/FM radio in their catalog for $22.50- Don't know if anyone
in the Dallas area has had a chance to actually look at it yet.
Solar\Crank. They have a page on the 'net.

I also have vague memories of a thread on 5 volt to 12 volt
(maybe "low voltage" to 12 volt) converters. Sorry...just
slips my mind... a bit like the stuff MAX puts out.

Sounds like a fun project. Good luck.

72, John- N5INZ

Date: Fri, 9 Oct 1998 21:29:45 -0400 (EDT)

From: Fran Flynn <fflynn@together.net>
To: ke6zx@juno.com, qrp-l@Lehigh.EDU
Subject: [21959] qrp freqs
Message-ID: <199810100129.VAA24915@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Wondering if someone could give me the usual frequency ranges where I
>would find the QRP activity on 15, 20, 30 and 40 meters. I am new to QRP
>operation and want to get my feet wet where there is other QRP activity.

>Thanks,

>fred ke6zx

~~~~~~~~~~~~~~~~~~

This should get you started:

QRP calling frequencies

band	CW	Phone
160	1.810	1.910
		1.843 Europe
80	3.560	3.985
	3.710 Novice	3.690 SSB Europe
40	7.040	7.285
	7.030 Europe	7.090 SSB Europe
	7.060 " "	
	7.110 Novice	
30	10.106	
20	14.060	14.285
17	18.069	
15	21.060	21.385
	21.110 Novice	21.285 SSB Europe
12	24.906	
10	28.060	28.885
~~~~~~~~~~~~~~~~~~

```
         28.110 Novice  28.385 Novice
                        28.360 SSB Europe

6        50.060         50.885
                        50.285 SSB Europe

2       144.060        144.285, 144.585 FM
```

Francis Flynn
ARS: KM1Z Grid: FN34

Date: Fri, 9 Oct 1998 18:31:03 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [21960] Re: Art Bell
Message-ID: <19981009.183103.9750.5.gsurrency@juno.com>

Harley, et. al.

Gee. Didn't think I would spawn another thread by the mere mention of Art Bell. But, I suppose it is better than the recent flame war. I was only using his name as a reference to the recent bizarre events on the QRP-L, and for a completely humorous explanation for them. ;-)

I doubt Art would be willing to do this, but I could be wrong. His show is enormously successful as entertainment, but doing a series of ham radio shows might just kill his ratings. ;-)

However, he definitely has the gift-of-gab, and may be able to pull this off in spite of a general lack-of-interest of the public for anything based on real science, vs junk science. Our present society seems entrenched in "instant gratification" without any effort involved. But, there seems to be no end to the fascination of people with the supernatural, galactic alignment, out-of-body experiences, "channeling", UFO's, and a host of other topics "not easily put in a box" as he says in his introduction.

Yet, your suggestion may have a glimmer of hope in it. Perhaps a piece

offering or donation of a QRP kit to Art might be a reasonable bribe, er, incentive? :-) :-)

Who knows what could come of it? (pretend to hear some cosmic-surreal music at this time)

72, and your idea is certainly well intended.

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Date: Fri, 9 Oct 1998 21:46:53 -0400
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-l@lehigh.edu>
Subject: [21961] 73 Magazine.
Message-ID: <010b01bdf3ef$dbf45c80$7f1005d1@vince>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

What happened to the September and October issues of 73? I have checked many newstands and they still have the August issue on display.

73 de Vince, VE3VFN.

Date: Fri, 9 Oct 1998 21:52:21 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: jwatrous@sonic.net, qrp-l@Lehigh.EDU
Subject: [21962] re: spartan sprint
Message-ID: <199810100152.VAA03229@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

  <snip>
> I weighed the SST

> first at the Post Office but not trusting this scale I took it to a
> friend
> who had a triple beam scale.
>
> I like the weight bonus and keep working on lowering it. This summer I
> rubber-banded together enough 3v coin cells to talk to an Oregon station.

  <more good stuff trimmed>

> Somebody beat me at my own game, please!
>
> John Watrous, K6PZB

Would attaching a bunch of helium balloons be considered cheating? It's
low wieght you are after, right? You could even achieve negative wieght.

Just another Friday night beer induced thought, I use the word "thought"
loosely of course :)

73

-Fran

Francis Flynn
ARS: KM1Z Grid: FN34

Date: Fri, 9 Oct 1998 20:54:39 -0500
From: "George Edwards" <gedwards@onramp.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [21963] Now I Remember.....
Message-ID: <000701bdf3f0$fe63dce0$0301ee9d@708714231>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I reactivated my membership to this list only yesterday......

Since then, I have been receiving many postings involving flaming back and forth....arguments and whining about techniques and methods for connecting with the fox (I suspect mostly from folks who seldom contact the fox) and now dissertations on Art Bell.......maybe QRP-L is the wrong name.

I now remember why I went inactive previously......since I really don't have the time or the desire to filter out and delete all off topic stuff.....I will unsubscribe.

bye.....

Date: Fri, 9 Oct 1998 22:05:08 EDT
From: DYARNES@aol.com
To: qrp-l@lehigh.edu
Subject: [21964] Pacificon Attendees--2nd Update
Message-ID: <93f1272e.361ec0d4@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Again Y'all (I spent a few years in Tennessee),

Got a few more responses and also pulled a few new names from Doug's post. Hopefully I'll get some more over the weekend. If you don't recognize at least 8 or 10 names below, then I fear you are working too damn hard!

'98 PACIFICON ATTENDEES 10/8/98 15:32

NAME	CALL
Dave Yarnes	W7AQK
Jerry Parker	WA6OWR
Doug Hauff	KE6RIE
Doug Hendricks	KI6DS
Jim Cates	WA6GER
Steve Cates	KC6TEV
George Dobbs	G3RJV
Derry Spittle	VE7QK
Roy Lewallen	W7EL
Wayne Burdick	N6KR
Eric Swartz	WA6HHQ
Bob Dyer	KD6VIO

Gary Diana	N2JGU
Brad Mitchell	WB8YGG
Paul Harden	NA5N
Brian Kassel	W5VBO
Bill Jones	KD7S
Dave Fifield	AD6AY
Ade Weiss	W0RSP
Chuck Adams	K5FO
Norm Melick	????
Denny Morales	AD6EZ
Grant Taylor	K7GT
Mike Gipe	K1MG
Jim Larsen	AL7FS
John Moriarity	K6QQ
Randy Foltz	K7TQ
Steve Hawkins	WV6U
Dave Epps	AB5PC
Edna Epps	KF6JSL
Jerry Schnor	N6IFW
Jim Lowman	AD6CW
Dick Obermayer	KF6CTA
Bob Painter	KF6NKH
Mike Connors	NQ7K
Dan Tayloe	N7VE
Tom Waits	AC5JH
Jeff Grudin	AC6KW
Ron Baldwin	K6EXT
Dave Adams	N9UXU
Ward Hill	WA6FUH
Mike Czuhajewski	WA8MCQ
Richard Fisher	NU6SN
Cam Hartford	N6GA
Bob Tellefsen	N6WG
Vern Wright	W6MMA
Roy Campbell	KN6QS
Andreas Black	KF6NEB
Jim Pepper	W6QIF
Gary Surrency	AB7MY
Sam Imai	KF6ML
D.K. Philbin	KD6TK
Conrad Weiss	NN6CW
Bob Okas	W3CD

Keep the info coming!

72 de Dave W7AQK

Date: Fri, 09 Oct 1998 22:06:09 EDT
From: wb2vuo@juno.com (W. K. Hibbert)
To: ctrask@primenet.com, qrp-l@Lehigh.EDU
Subject: [21965] Re: Steam-Powered Radio
Message-ID: <19981009.220530.8279.0.wb2vuo@juno.com>

Hi all. I built the TX part of the "Steam=Powered Radio"

It was published in "Popular Electronics" in June 1966. It used a
1-transistor TX on 80 Meters and was powered with a 12 volt "Hobby Motor"
from Lafayette (I think), driven with a hobby-type steam engine.

TX used a 2N384 and the output "tank" was an AM loopstick, resonated with
the internal capacity in the transistor.

I could light a #49 bulb quite brightly with a 6-volt battery, about 100
mW out, and I worked NY/NJ/MA/OH from the Syracuse, NY area as WN2VUO

I never got the steam engile, but the picture was neat!

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

Date: Fri, 09 Oct 1998 19:08:44 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: hsilver@pyx.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21966] Re: Art Bell
Message-ID: <361E5F3C.2A5B1123@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A few years ago Len Winkler, KB7LPW tried just that with his "Ham Radio
and More" show. An attempt at syndication was not very successful, and

the show ended up on WWCR, where the religious right and militia folk hang out. The show was cancelled not long ago for lack of interest and sponsorship. I _was_ aimed at the general public as well as the ham population.

I had the pleasure of sharing a 30 minute segment with Paul Harden, NA5N and we talked about QRP. I'm not sure anyone was listening, :-)
--
72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Fri, 9 Oct 1998 22:06:50 -0400
From: "George Heron" <gheron@idt.net>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Cc: <SBillingsley@usaninc.com>, <astone@erols.com>, <ehare@arrl.org>
Subject: [21967] re: Need CCW references [LONG]
Message-ID: <00da01bdf3f2$acfc4110$833984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This is in response to the recent inquiries for CCW reference material. Sorry for the length but I think this is pretty cool stuff and will be of interest.

At this year's Dayton FDIM QRP Symposium back in May, Peter Eaton (WB9FLW, eatonp@siue.edu) and I (George Heron, N2APB, n2apb@amsat.org) made a couple of presentations on the subject of Coherent CW ("CCW"). Peter overviewed the rich and colorful history evolution of this low bandwidth communications mode brought about by some ham pioneering giants, and I reviewed the technology and a practical homebrew CCW rig and station. And BTW, one of these giants is our very own QRP-L'er Ade Weiss W0RSP.

Peter and I had a couple of handouts, and one is copied at the end here for your interest and further research. This "CCW Compendium" is a bibliography of over 400 pages of CCW literature, projects, historical happenings, technology evolution, and more. Some of the references have been mentioned in recent feedback (e.g., QST articles), but much much more is available on Bill McClune's website (http://www.clark.net/pub/mcclun/ccw/) ... it's a *fabulous* resource containing nearly all of the Compendium information that Peter had painstakingly amassed over the years in hard copy form. It seems like I have most of my hard disk containing the various documents and programs from these (and other) locations.

[NOTE: in checking out this web link prior to my sending this email, I find that it's either not there any more or currrently unaccessible. Thankfully (for me :-) I have everything on my local system ... I will see about getting rights to re-post on the NJ-QRP website if Bill's is no longer available.]

The other paper handed out at FDIM was done by Stan Wilson, AK0B of the St Louis QRP Society. I don't have the electronic form for Stan's wonderful 2-3 page detailed overview of the technology, but he may be able to make it available or grant reprint permissions. I think it's the "Stealth CW" article listed in the Compendium. (Stan frequents QRP-L and is a tremendous technical asset for us in this technology.)

The reference made to the Summer '98 QRPp article by Vic Black AB6SO is truly a great one. Vic clearly and succinctly overviews the evolution and current state of the technology, and gives some additional references. It's also a must-read.

My CCW station is a homebrew R2/T2 transceiver, with a DDS VFO, and a DSP processor for the quadrature recombination of audio signals. The DSP software also holds the CCW and Tx loop control algorithms. The project is currently apart on the bench as I'm working on a detailed technical overview (and more) for the next FDIM QRP Symposium ... so I won't be able to help with the CCW sked requests right away.

However, just about anyone can put together a simple CCW station based on the wonderfully-simple Sigma Delta A/D converter board Bill de Carle, VE2IQ designed and describes in his Spectral Display article of QST a few years back. [In fact, the St Louis QRP Society had this board as a club project for CCW purposes a long while ago!]. With this $95, 1.5"x3" board connected between your Rx speaker and PC, and a frequency step up/down control line to your VFO, you can put together a simple CCW station in relatively short order. (Bill de Carle's website is at http://www.ietc.ca/home/bill/bbs.htm and has downloadable software and information on his board.)

Just a note here for the purists ... CCW has evolved to an even more efficient communications mode called BPSK, whereby a continuously transmitted 800 hz tone is modulated by phase shifts, providing much better noise immunity on the receiving end. BPSK is still being used, although CCW is no longer supported in some of the fine VE2IQ software for the PC. I have the last version of COHERENT that contained the CCW algorithm and can use/distribute it for others wishing to dabble with the SD board approach described above. (This is what I have based by DSP version on.)

Okay, that's enough for now. Sorry this is so long but a couple of years ago I started down the same trail of digging out old references (some of the QRP-L gang might remember the discussions then too :-) and I'm excited to share with others all this material and Compendium.

72/73,
--George Heron, N2APB
  n2apb@amsat.org in Sparta, NJ

THE COHERENT CW COMPENDIUM

Articles, Newsletters, And Other Documents For The CCW Enthusiast

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* STEALTH CW, Stan Wilson AK0B, St. Louis QRP Society Peanut Whistle January 1995.

* COHERENT CW - AMATEUR RADIO'S NEW STATE OF THE ART?, Raymond C. Petit W7GHM, QST September 1975.

* THE 10-WATT GALLON, GAIN 20 DB WITH CCW, Raymond C. Petit W7GHM, Petit Logic Systems.

* COHERENT C.W. - THE C.W. OF THE FUTURE PART I, Adrian Weiss K8EEG/0, CQ June 1977.

* COHERENT C.W. - THE C.W. OF THE FUTURE PART II, Adrian Weiss K8EEG/0, CQ July 1977.

* QRP - THE ART OF VERY LOW POWER OPERATION, Adrian Weiss K8EEG/0, CQ January 1978.

* COHERENT CW PART 1 - THE CONCEPT, Charles Woodson W6NEY, QST May 1981.

* COHERENT CW PART 2 - THE PRACTICAL ASPECTS, Charles Woodson W6NEY, QST June 1981.

* COHERENT CW, Chapter 21 (Special Modulation Techniques), ARRL Handbook 1985.

* COHERENT CW NEWSLETTER, Charles E. Woodson W6NEY, pages 1 - 150.

* AN INTRODUCTION TO "COHERENT" AND "PCW" (PRECISION C.W.) PROGRAMS, Peter Lumb G3IRM.

* A DSP VERSION OF COHERENT - CW (CCW), Bill de Carle VE2IQ, QEX February 1994.

* CCW USING DSP AND YOUR SHACK'S COMPUTER , Bill de Carle VE2IQ.

* A RECEIVER SPECTRAL DISPLAY USING DSP, Bill de Carle VE2IQ, QST January 1992.

* ASSEMBLY INSTRUCTIONS - SIGMA-DELTA INTERFACE KIT, Gordon Willard NO0G, December 1994.

* COHERENT C.W., Peter Lumb G3IRM, G-QRP Club SPRAT #60 Autumn 1989.

* COHERENT C.W. NEWSLETTER, Peter Lumb G3IRM, Issue Number 1 - 30, October 1989 - December 1994.

* LETTER TO COHERENT C.W. NEWSLETTERS MEMBERS ANNOUNCING END OF PUBLICATION, Peter Lumb G3IRM, January 1995.

* COHERENT CW ANOTHER DIGITAL MODE!, Peter Lumb G3IRM, Digital Journal March 1995.

* CONNECTING COMPUTERS TO RADIOS ADDING DDS FREQUENCY CONTROL, Howie Cahn WB2CPU, Communications Quarterly Winter 1995.

* A SINGLE-BOARD SUPERHET QRP TRANSCEIVER FOR 40 OR 30 METERS, Dave Benson NN1G, QST November 1994.

* THE "SMALL WONDER-40" 40 METER SUPERHET TRANSCEIVER KIT INSTRUCTION MANUAL, Small Wonder Labs 1994.

* MODS FOR THE "XX-40" TRANSCEIVERS, Dave Bensen NN1G, New England QRP Club 72 Newsletter October 1994.

* UNIVERSAL FREQUENCY STANDARD, Bert Kelly K4EEU, Ham Radio February 1974.

* USING THE WORLD'S MOST ACCURATE FREQUENCY STANDARD PART 1 BUILDING A RECEIVER FOR WWVB, Bob Roehrig K9EUI, 73 Amateur Radio Today, January 1994.

* USING THE WORLD'S MOST ACCURATE FREQUENCY STANDARD PART 2 BUILDING A DIGITAL PHASE COMPARATOR, Bob Roehrig K9EUI, 73 Amateur Radio Today February 1994.

* USING THE WORLD'S MOST ACCURATE FREQUENCY STANDARD PART 3 BUILDING A GOOD SECONDARY FREQUENCY STANDARD, Bob Roehrig K9EUI, 73 Amateur Radio Today March 1994.

* USING THE WORLD'S MOST ACCURATE FREQUENCY STANDARD - CORRECTIONS TO ARTICLES / DRAWINGS / ETC, Bob Roehrig K9EUI.

* FREQUENCY SYNTHESIZED LOCAL-OSCILLATOR SYSTEM FOR THE HIGH FREQUENCY AMATEUR BANDS, Raymond C. Petit W7GHM, Ham Radio October 1978.

* PHASE-LOCKED 9 MHZ BFO, Raymond C. Petit W7GHM, Ham Radio November 1978.

* PHASE-LOCKED UP-CONVERTER, Raymond C. Petit W7GHM, Ham Radio November

1979.

* PETIT LOGIC SYSTEMS PCF-3 COHERENT CW FILTER ASSEMBLY NOTES, Raymond C. Petit W7GHM, Petit Logic Systems.

* PETIT CW FILTER CIRCUIT BOARD ARTWORK, Raymond C. Petit W7GHM.

* COHERENT CCW SIGNAL GENERATOR, Peter Lumb G3IRM.

* SIMPLIFIED TEST OF CCW FILTER USING THE REVISED G3IRM GENERATOR, Peter Lumb G3IRM.

* SETTING UP THE COHERENT C.W. FILTER, Peter Lumb G3IRM.

* SOME TESTS USING COHERENT C.W., Bert C. De Kat VE3DPB and Don H. Gross W3QVC.

* HIGH PRECISION CLOCKING RECEIVER - A SUPER INFRAHETRODYNE FOR WWVB RECEPTION, Don H. Gross W3QVC, February 9, 1974.

* CCW MATCHED FILTER RECEPTION OF MORSE CODE OR OTHER DIGITAL INFORMATION Don Gross W3QVC and Bert C. De Kat VE3DBP, Toronto Canada June 1977.

* TO BE DISCUSSED: COHERENT COMMUNICATIONS TECHNOLOGY, Ulf-Dietmar Ernst DK9KR, VHF Communications 1/82.

* THE OPTIMUM IF SELECTIVITY FOR COHERENT TELEGRAPHY (CCW), Bernd Neubig DK1AG, VHF Communications 3/82.

* AN OPTIMUM CRYSTAL FILTER FOR COHERENT TELEGRAPHY (CCW), Friedrich Krug DJ3RV, VHF Communications 3/84.

* SOME POSSIBILITIES OF INTELLIGENCE TRANSMISSION WHEN USING A LIMITED BAND OF FREQUENCIES, Frederick Emmons Terman 6FT, Proceedings of the Institute of Radio Engineer's January 1930.

Date: Fri, 9 Oct 1998 22:08:55 -0400
From: ke6zx@juno.com (Fred J Kalt)
To: qrp-l@lehigh.edu
Subject: [21968] QRP Frequencies

Message-ID: <19981009.220856.-912663.10.ke6zx@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Many thanks to all who graciously responded to my request for QRP frequencies. Since I am new to QRP, I really appreciated the generous responses.

Fred KE6ZX
Lakeland, FL
W5YI-VE Skywarn #POL-007 AR QRP #233 QRP-L #1728
My Web Page:
http://www.geocities.com/ResearchTriangle/Thinktank/5344/

Date: Fri, 9 Oct 1998 22:14:10 -0400 (EDT)
From: hsilver@pyx.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21969] Re: Now I Remember.....
Message-ID: <Pine.LNX.3.95.981009220624.27892G-100000@matrix.pyx.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 9 Oct 1998, George Edwards wrote:
> I reactivated my membership to this list only yesterday......
>
> Since then, I have been receiving many postings involving flaming back and
> forth....arguments and whining about techniques and methods for connecting
> with the fox (I suspect mostly from folks who seldom contact the fox) and
> now dissertations on Art Bell.......maybe QRP-L is the wrong name.
>
> I now remember why I went inactive previously......since I really don't have
> the time or the desire to filter out and delete all off topic stuff.....I
> will unsubscribe.
>
> bye.....

Mr. Edwards,
It certainly was not my intention to present a disertation on Art Bell and I did try to limit the scope of discussion in my post by attempting to head off extraneous areas ahead of time.

The purpose of my post was to present a suggestion to promote HAM radio and QRP to a larger audience. It truly wasn't my intent to offend you or anyone else with my suggestion for promotion.

Regards,

Harley Silver - Toronto.

Date: Fri, 9 Oct 1998 22:22:53 -0400 (EDT)
From: hsilver@pyx.net
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [21970] Re: Art Bell
Message-ID: <Pine.LNX.3.95.981009221649.27892H-100000@matrix.pyx.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 9 Oct 1998, Gary L Surrency wrote:

> I doubt Art would be willing to do this, but I could be wrong. His show
> is enormously successful as entertainment, but doing a series of ham
> radio shows might just kill his ratings. ;-)

Hrmmm... well, what if its looked at this another way...

Most would agree his radio show deals with somewhat esoteric topics. Wouldn't it be a matter of who presents it and the manner in which they present it that can make an esoteric topic such as HAM radio and QRP interesting and entertaining ?

Its been my good fortune to attend some presentations by some people who are quite enthusiastic about an esoteric topic and made the presentation very enjoyable and quite entertaining.

Regards,

Harley Silver - Toronto.

Date: Fri, 9 Oct 1998 22:20:52 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>

To: baldwin@primenet.com, qrp-l@lehigh.edu
Subject: [21971] cleaning switches in HW-9
Message-ID: <199810100220.WAA13088@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Just acquired a Heathkit HW-9 but one the switches has an intermittent
>problem. Does anyone know a good method for cleaning oxidized
>switch contacts?

As one who spent years repairing consumer electronics
such as TV's and stereos and running into the same thing
there, good old Radio Snack tuner cleaner
works just about as well anything. They probably don't call it
tuner cleaner now because most tuners don't have mechanical
contacts like they used to, so maybe it's control and switch cleaner.

But, before you spray anything into a switch or pot, try
just working it many times. Often the problem is that the
unit may have been stored without being used for a long period.

Very often this will be enough to clear whatever is in the
switch or potentiometer. In some cases, you can wash out
the lubricant in a control and make it worse with a spray
cleaner, slide pots can be a problem that way.

The pushbutton switches in your HW9 should be alright though if you
use some control cleaner and a little elbow grease, just
work the switch in and out several times preferably before
the cleaner evaporates. This should do the trick.

-FF

Francis Flynn
ARS: KM1Z Grid: FN34

Date: Fri, 9 Oct 1998 22:17:16 -0400
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: <jrybak@mesa7.mesa.colorado.edu>, "Low Power Amateur Radio Discussion" <qrp-

l@lehigh.edu>
Subject: [21972] Re: Basic SMT Toolbox ????
Message-ID: <199810100224.WAA08734@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jim,

I'm not an expert, in that I don't do surface mount stuff for a living like some people, but I have begun to use surface mount whenever possible in my shack.

So far, I've made a few KnightSMiTes, used SM parts to modify my Sierra, and I'm in the process of building some HB surface mount audio filters. I used paint pens to make the board patterns before etching.

Here are the tools I use.

1. Good Weller temperature controlled soldering iron with a very fine point.
2. Fine solder. I use .015" rosin core.
3. Good Tweezers. Mine are about 6" long, with the last 3/4" angled. Cost $5 at a sewing machine store.
4. A magnifying glass. Mine is a standard glass about 3" in diameter.
5. Of course, a bright light over my bench.
6. Regularly use my Ohmmeter to test for continuity, shorts and resistance.
7. A Capacitance checker to test unmarked SM capacitors.

The 0805 size and larger parts can be worked with this equipment, and I have soldered some even smaller.

Just so you know, I'm 65 years old, and have had to wear glasses for the last 15 years or so due to my aging eyesight.

Hope this glimpse of one guys approach to SM is helpful.

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. -- Benny Hill

> I've not built any circuits using SMT devices. What equipment do I need
> to get started?

Date: Fri, 9 Oct 1998 22:26:34 -0400
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [21973] Re: Ham Radio and More.
Message-ID: <012d01bdf3f5$66dc69a0$7f1005d1@vince>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Roger,

The programs are archived on Real Audio format at the TAPR web site, could you
let us know the program date both you and Paul Harden were on?

73 de Vince, VE3VFN.

Date: Sat, 10 Oct 1998 13:00:04 +1000
From: Luke Enriquez <lenr1@students.latrobe.edu.au>
To: qrp-l@lehigh.edu, tmjpain@mindspring.com
Subject: [21974] Re: QRP-L digest 1239
Message-ID: <3.0.32.19981010130003.007bfa60@students.latrobe.edu.au>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

G'day from VK Tom,

>Does anyone have any suggestions about prototyping with SMT parts? After
>building two smites, I think this is the natural evolutionary course for
>homebrewers. I want to give it a try but don't know where to start.
>Suggestions (other than get a life).

     I have been experimenting with surface mount for a few years now.
In that time, I've learnt some tips and tricks which you might find useful.
I'd would like to start an FAQ on prototyping with SMT. Anyone else
interested? Here are some quick tips.

1.) Prototyping Boards -

     SMT requires a bit of thought before you can go ahead

and prototype. It doesn't require extra money! For frequencies up to 50Mhz you can do a lot with some

a.) Double sided blank PCB
b.) Scoring Knife
c.) Metal Rular
d.) Hot Soldering Iron and some pressure

Remember how you used to proto-type with leaded (Thru-hole stuff) RATS nest style? You might have cut out little sqaures of PCB to make islands that you could solder stuff on to and use the main PCB as a ground plane. Well, you can use the same concept for SMT.

Step 1.) Choose the area of copper that you want to isolate (The Island)

Step 2.) Knowing the size of SMT device you are using, score a thin track of copper around this island with a scoring knife and a rular. You should know have a copper island with a square track scored into the PCB around it.

Step 3.) With a hot iron and some pressure, lift the track from the PCB substrate. If the track fails to lift, you might have to score deeper. Using a PCB with thin copper helps.

You should now have a copper island that is electricaly isolated from the ground plane. With your circuit in front of you, you should be able to work out where you want other islands. I try and make each island have some access to the ground plane. What about SMT IC's I hear you say!

Well, I usually turn the IC upside down and make islands around the edge of the up-side down IC. I then use some wire-wrap wire to connect the IC legs to the copper islands. IC's that require decoupling to ground can have the appropiate pins bent up and you should be able to slip a 0.1uF or appropiate SMT cap under the leg and solder the cap directly to the ground plane.

2.) Soldering

A common myth is that you need to have an expensive SMT workstation to solder SMT parts. You don't. I find a Weller soldering station with a few tip sizes is adequate. If you soldering parts to copper islands as described above,
a fine tip should be OK. You might need a larger tip if your trying to solder to a solid ground plane. If you are soldering wire wrap wire to SMT IC legs, use
a fine tip. I use a Plato extra fine tip for this job.

One problem with SMT is that most soldering irons are too hot and evaporate all the flux before the joint has time to set. You can buy tubes of solder flux. The extra flux keeps the surface tension up, and you will end up with a nice shiney joint each time.

The type and size of solder you use can be important too. I use solder with 2% silver also known as Low Melting Point solder(LMP). It is more expensive, but I have been told the silver puts the alloy smack bang on the Eutectic point. What the hell is the Eutectic point you say? Well, its the point at which the solder turns from a liquid phase to the solid phase.

One problem with conventional solder is that as the joint is cooling, the tin solidifies first, then the lead. If you happen to move the joint during this partial solid/liquid phase you may end up with a faulty dry joint. Using LMP solder is one way in minimising this problem.

To solder a component, melt some solder onto one of the pads (Islands) that you intend to use. With your SMT component in your tweezers, remelt this solder and slip the end of the SMT componnent in it. Holding the tweezers steady, let the joint cool. Now go solder the other end. No go re-melt the original end to ensure joint quality.

3.) De-soldering

This is the tricky bit. Desoldering SMT caps, resistors and inductors is best done with two seperate soldering irons. Heat up both ends and flick the component off. Dont re-use SMT caps. They are fragile and fracture easily. I dont re-use SMT resistors either (I'm just lazy and usually cant find them after I flick them off anyway). I do re-use SMT inductors.

You can recover SMT ICs from junk equipment, providing the IC is not to small. Any SOIC with 50 mil spaced leads is recoverable without the use of a SMT desoldering station. My technique which was shown to me by Steve Merrifield, VK3ESM and fellow La Trobe Uni student now post graduate, is to first remove as much solder with Soder Wick or typical good brand of solder wick.

Next, thread some fine enamaled copper wire underneath the IC. With one end of the wire anchored, heat up the first pin of the IC and pull the wire. It should slip underneath the pin and lift it off the pad. Now do the same for all the pins on that side of the chip. Now do the same for all the pins on the other side of the chip. If every pin is free from the pad, the IC should just slip off.

4.) Conclusion

Prototyping with SMT can be fun. The tips and tricks above are my own. Everyone who prototypes with SMT develops their own technique over time, so experiment and see what you can come up with.

Regards,
Luke
VK3EM

Date: Fri, 9 Oct 1998 20:17:37 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [21975] Art Bell & QRP
Message-ID: <19981009.201737.9750.6.gsurrency@juno.com>

Clay, N4AOX wrote:

>Good Gawd Kathi! What did you do, dis' a Zombie (R) (TM) Icon or
>something? ;-)

Now, there's an idea! hmmmmm.....

I know!

Halloween is near, so we could also send a Norcal Zombie (tm) badge along with the (ahem) QRP donation to Art as an inspiration! Maybe he'd fall for it....uh.....I mean, consider it. ;-)

Maybe witchess Sandra could make up a "special" badge, just for Art?!!!

Heck, Art's always talking about Area 51. Why, with the handy-dandy reversible Zombie (tm) badge, he can just walk right in! ;-)

Then, we'll really know what goes on it there! Heck, we'll all bring our "badges" and have a look-see!!!

Hey! This is beginning to make some sense after all! ;-)

Ya just never know what good may come from something otherwise thought to be evil. Witness the origins of the Zombie (tm) badge! =8-o

Paul can forward to Art the details of the upcoming Zombie (tm) night contest! It'll be like Orson Welle's famous Martian invasion broadcast all over again! Only this time, hoards of Zombie (tm) wannabies will be studying for their ham ticket! We'll get Paul, W8KC to do the lyrics and theme music!

Repeat after me, (in a Zombie (tm) monotone) I'll only operate QRP, I'll only operate QRP, I'll only operate QRP......

This is pretty freaky stuff.....Nils, time to fetch that badger ointment! And don't forget the cheese otters, either!!!

Now, how do we figure Linda Moulton Howe's report into all of this?

PS. Everyone remember to wear their Zombie (tm) badge this Halloween.. You have been warned.....

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Date: Fri, 09 Oct 98 23:32:42 -0400
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "vhf@w6yx.stanford.edu" <vhf@w6yx.stanford.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "Six Meters" <50mhz@qth.net>
Subject: [21976] Re: [50MHz] If you have an FT-690R you might know...
Message-ID: <199810100335.DAA131376@out4.ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

On Fri, 09 Oct 1998 21:09:38 -0500, Robin Midgett wrote:

>Hello Caitlyn,
>I have a FT790 RII..

I appreciate all the responses I have had. I just wanted to share one
thing for future reference...

The Mark II radios are quite *different* from the original version, and use
different accessories. A Mark II PL board (model FTS-7A) will not fin in
a Mark I radio.

73,
Cait
KU4QD

____
Caitlyn M. Martin   "They have computers, and may have
cait.martin@ibm.net   other weapons of mass
http://www.angelfire.com/nc/caitmartin   destruction" -Janet Reno
____

Date: Fri, 09 Oct 1998 20:48:30 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: vferme@sprint.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21977] Re: Ham Radio and More.
Message-ID: <361E769E.D42BB638@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I don't have a clue as to which archived program that was. Maybe Paul
will jump in with the info.

--
72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Fri, 09 Oct 1998 21:04:29 +0000

From: Roger Hightower <n7kt@earthlink.net>
To: vferme@sprint.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21978] Re: Ham Radio and More.
Message-ID: <361E7A5D.8851A883@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Now I have the info. The QRP show was 4/21/96, and is available from
Len on tape for $5.00. You can get to his page at:

http://www.goodnet.com/~lenwink/hrm.htm

TAPR archives only those shows that dealt with packet radio.

As I recall, Paul, Steve Thompson N7TX and I had a lot of fun, but I
don't think I'd pay five bux for the tape.
--
72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Sat, 10 Oct 1998 00:19:25 EDT
From: Ab7wy@aol.com
To: qrp-l@Lehigh.EDU
Subject: [21979] Re: Art Bell
Message-ID: <12f5b8a7.361ee04d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 98-10-09 20:59:44 EDT, you write:

<< However, the merits or the lack thereof of the Art Bell Radio program
 is NOT the point of this post so please, let's not get into a protracted
 diatribe of Art Bell Uber Alles! vs The 'I hate Art Bell' crowd. >>

 hey, ill open a can of worms......im a Howard Stern fan. and the only AM BC
i listen to is the Jim Rome sports show. Howard also made reference to David
Letterman being a ham ...anyone know anything about this as Daves very
private.

73....Adam, AB7WY
(theres no need to flame me, it wont work)

Date: Sat, 10 Oct 1998 00:28:07 EDT
From: Ab7wy@aol.com
To: qrp-l@Lehigh.EDU
Subject: [21980] Re: Now I Remember.....
Message-ID: <4aee63ad.361ee257@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

actually you picked a wierd time to come back on...things were very quiet and peaceful until a few days ago...it will simmer down. otherwise ol' Chuck wouffhong will appear and tan some hides. this is still the best reflector for 'real' ham radio discussion...but remember its the internet, this kind of thing gets into every corner of the web at one time or another. stick around, we dont want you to go away.

73...Adam, AB7WY

Date: Fri, 9 Oct 1998 22:37:52 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <prvalko@oakland.edu>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [21981] My thoughts - WQ8RP RIT vs SPLIT Operation
Message-ID: <003e01bdf410$20f01160$3c5233d1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Paul (and the QRP-L group) -

Paul, you are doing a great job, and don't even think of giving up <g>. I have been reading some of the other comments about this RIT controversy, and it got me to thinking.

QRPers who decide to participate in the Fox Hunt on 40 meters are a competitive group. Because they/we are a competitive lot, we don't like it when we fail to work the Fox on any given evening. I know that feels, having missed working the Fox by a "hair" this past Tuesday.

What seems to make loosing worse is to perceive that some other Fox Hunter is using (what we consider to be) unfair tactics to get the Fox that WE didn't get.

In reality, the only unfair tactic is to use more than 5 watts to make the contact! Get a grip you whiners. . .

1. Having a better antenna than someone else is not unfair (not talking about myself here folks.....I have a simple dipole up 35 feet).
2. Deciding to place your signal slightly off freq from the hundreds of other Fox Hounds is ALSO not being unfair. It's just a risk that might pay off from time to time, and has been a time-proven DX hunting strategy for years.

So, like the "Little Engine That Could", just keep trying to bag the little rascal, and don't give up. See you next Tuesday gang.

Bill-N7MFB
http://www.willapabay.org/~bill
ICQ me @ 8926298

Date: Sat, 10 Oct 1998 02:30:52 -0400
From: Erv <kb8tnq@voyager.net>
To: gsurrency@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [21982] Re: Art Bell & QRP
Message-ID: <361EFF1C.DA27E34B@voyager.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gary L Surrency wrote: Halloween is near, so we could also send a Norcal Zombie (tm) badge along with the (ahem) QRP donation to Art as an inspiration!

Great suggestion, Gary....I proposed this same idea several months ago, when the ZOMBIE thing first became a hit. I, too, am an Art Bell listener and, since he is an Amateur, I thought it would be a good ice breaker.

Now that there is more support for the idea, and if it hasn't been done already, I hope the powers that be see this and send it off. Bell's show WOULD be a great forum, to some degree to share Ham/QRP information-if only on a limited basis.

7-3,
Erv-W8ERV

Date: Sat, 10 Oct 1998 20:58:55 +1100
From: John Bates <batesjw@netspace.net.au>
To: qrp-l@Lehigh.EDU
Subject: [21983] Seeking amateur
Message-ID: <361F2FDF.F7D1B00B@netspace.net.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all, not quite qrp but thought this was my best shot at finding the info I need.

Am trying to make contact with Kevin Rickens AB4XM.
His address on the listings is now not correct as he has moved.
Any help much appreciated.
Cheers
John

--
batesjw@netspace.net.au
batesjw@southcom.com.au
vk7rt@qsl.net

http://www.qsl.net/vk7rt/
VK7RT
CW OPS QRP Club #456
QRP ARCI #9579
NJQRP Club # 115

Date: Sat, 10 Oct 1998 07:25:29 -0400
From: "david r" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [21984] 80 METERS
Message-ID: <000401bdf440$b065fc80$563d62ce@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All,

Some time back there was a thread that delt with the lack of activity on
80meters. I found that interesting... just thought I'd let you know that I
worked HA1TJ, in Hungary last night at about 2315 UTC. 2w to a dipole.. so
start checking 80 in the early evening hours.. of course i did work him in
the extra part of the band.. not much dx above 3.025 mhz.. but occassionally
i do hear German and other European stations at about 3.059 or so..
see you on the bands
73 Dave KC1DI Qrp-l 975 Qrp ARCI 3843
ps did the happy dance around the shack-- xyl gave me that funny look

---

Date: Sat, 10 Oct 1998 07:37:09 -0400
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: <qrp-l@Lehigh.EDU>
Subject: [21985] Pixie's Progress -- got KY, also -- Need Help re audio limiter
circuit
Message-ID: <199810101135.GAA15718@dfw-ix1.ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I was in the shack watching the game last night -- after Cleveland got up 5
or so I figured I'd see what was happening on the bands -- turned on the
big rig and heard some QRP activity near 7.0406 (my Pixie's freq) so I set
up the Pixie and tail ended a 2-way QRP QSO. Worked N4KZ, Dave in KY --
that makes 18 S/Ps on that little Pixie / MRX-40 / DeMaw filter combo.

I need to find an audio limiter circuit for the Pixie set-up. A couple
times I switched to transmit before I turned off the audio amp -- really
blasted my ears (they still hurt). I guess I'll try one of those "2
parallel diodes to ground" circuits just before the earphone jack. I saw

one recently but searched my back issues of QQ, QRPp and Sprat and can't find it -- anyone have any suggestions for an audio limiter or simple AGC circuit??

Thanks,

Jake [N4UY]   Vienna, VA (Washington DC suburbs)

QRP-L #821, G-QRP #9557, AK/QRP #175, CQrp #46,
NJ-QRP #74, NorCal#1457, ARCI #9392, FISTS #3450

WAS QRP W/C 50/49 (no HI card yet)
WAC QRP W/C 6/4
WAS QRPp W/C 16/15 (250 milliwatts on a Pixie II / MRX-40 / Tick Keyer /40m dipole combo)
DXCC-Pixie W/C 002/002

"...the harder the conflict, the more glorious the triumph. That which
 we attain too cheap, we esteem too lightly." Thomas Paine, 12/23/1776

Date: Sat, 10 Oct 1998 07:43:00 EDT
From: MJC191@aol.com
To: qrp-l@Lehigh.EDU
Subject: [21986] re:Fox: How To Bag A Pelt using RIT
Message-ID: <480606a7.361f4844@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Many many thanks to Joe AB7TT for this great post.

Now THIS is the sort of stuff I love to see and learn from
on this reflector.

As Thucydides wrote in his History of the Peleponnesian
War, battles are won either by "tyche" (dumb luck, brute force),
or by "techne" (skill, strategy, cunning).

In the hunt for the furry critter, we need a little of both.
Thanks, Joe, for upping our "techne".

72 to all, and see you in the fray Tuesday nite.

Mike NA1XX // Weymouth Mass.
QRP-L # 1588
"When all else fails..... CW"

Date: Sat, 10 Oct 1998 06:19:02 -0700
From: "Bill Todd" <bill@willapabay.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <nwq-l@scn.org>
Subject: [21987] NW QRP Club Meeting Today
Message-ID: <001101bdf450$8d805200$274ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi folks -

I hope those of you in the Seattle area can come to our Club meeting today at Andy's Diner in Seattle. Be sure to bring your show n' tell projects, even your latest garage sale "junque" boatanchor is welcome.

There have been a few e-mails sent my way as to how to actually FIND Andy's Diner (ha). Here's the brief skinny:

Andy's is about 2 blocks North of the West Seattle bridge on 4th Avenue. If you can get on 4th Avenue (heading South), you will find Andy's Diner on the right side of the road. And, being a genuine "Diner", Andy's is housed in a number of old railroad Pullman cars.
In short, you can't miss it.

See you at 10 AM, but be sure to enter in through the back door!

CUL, Bill-N7MFB
http://www.willapabay.org/~bill
ICQ me @ 8926298

Date: Sat, 10 Oct 1998 09:29:14 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@Lehigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [21988] WQ8RP
Message-ID: <Pine.LNX.3.95.981010092249.17072A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...well it was another exciting fox hunt and enjoyable as well...you never know what's going to happen when you turn your rig on and start tuning for the fox...some of the signals heard were W5WHN, K5ID, K0EVZ, K1QM, K1OJ, VE6EWM, W0RW, K1MG, N3XSI....I gave Hank 229 but he really wasn't moving the S meter most of the time...I'm going to shift the feed point on my delta loop from the corner to the middle of the low side and see what happens....I like to change from the delta loop to either a square or rectangle but it might not be possible given this city lot...tnx to all and Happy Canadian Thanksgiving!

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

Date: Sat, 10 Oct 1998 11:19:14 EDT
From: Shephed@aol.com
To: qrp-l@Lehigh.EDU, cw@qth.net
Subject: [21989] I got my Extra!
Message-ID: <18ab198.361f7af2@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Woo Hoo, I'm doing the Happy Dance!

I made Extra this morning!

73
Dan, N8VZU/AE
FISTS #4985
QRPl #1404

Date: Sat, 10 Oct 1998 13:40:36 EDT
From: Mercxx@aol.com

To: qrp-l@Lehigh.EDU
Subject: [21990] Wanted
Message-ID: <688185d2.361f9c14@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,
   Being the new guy to QRP I am still looking for some items. So if anyone is shack cleaning I am looking for a small tuner and swr meter. Recommendations on what to build are wanted to. This is a great list and appreciate all who respond to my newbie to QRP questions, thanks. By the way is there a membership to QRP-L? If so how do I apply..

Thanks in advance.

73s
Steve
N4TKP
FIST 4922

Date: Sat, 10 Oct 1998 11:36:31 -0600 (MDT)
From: marion@montana.com
To: <jjmcd@tm.net>
Cc: qrp-l@Lehigh.EDU
Subject: [21991] Re: [CW] Purchase a new transceiver
Message-ID: <199810101736.LAA13669@paw.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:08 AM 10/10/98 -0400, you wrote:
>
>>
>
>This is probably heresy to many on this list, but take a look at the Icom
>IC-706MkII.
>
  I agree. I sure enjoy mine. No, Its not as good as my Sierra for CW. But as commercial rigs go, I think its better than most. The DSP does help when QRN is bad. I bit the bullet and got the matching auto tuner, and am not one bit sorry. I use the semi break in so I don't have to listen to relay chatter. Power is EASILY adjustable from 3 to 100 watts at any time, even when you are in the middle of a QSO. I can't think of a commercial rig feature that it doesnt have, and EVERY parameter is adjustable with front

panel menu. Variable bandwith spectrum scan display is also handy at times.
I am also a 6mtr fan so it is great for me. Roy AB7CE

Date: Sat, 10 Oct 1998 08:31:32 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [21992] Re: FOX hunting tips
Message-ID: <19981010.083132.3478.0.gsurrency@juno.com>

I was asked for more details on constructing the resonant speaker. Those of you that have read the original material, or have the Spring 1997 issue of QRPp may either hit <delete> now, or continue reading. ;-) Thanks.

There are several methods of arriving at the desired speaker resonant frequency.
You can do the math, and hope the speaker, tube, air temperature, and a few other factors are close to theoretical parameters. Then, adjust accordingly for real-world variations. This is *analog* theory, you know! ;-)

The formula that Bob, WB2CWA presented in his QRPp article, and also appeared in Hints and Kinks, is:

L=3406/f - 0.4d

where:

L = the length of the tube in inches
f = the resonant freuqency of the tube in hertz
d = the inner diameter of the tube in inches

Examples of tube length, and the approx. resulting resonant frequency are:

4.07" = 700 Hz
4.48" = 650 Hz
4.88" = 600 Hz

What results is a quarter wave acoustic cavity that "augments the speaker cone movement at resonance.", just to quote Bob's original article.

Another method, is to cut the tube to a length of between 4 and 6 inches, and then use an audio frequency generator, or your rig tuned to a steady

carrier while you slowly vary the rig's tuning dial and listen to the resulting audio beat note. A distinct peak in the audio tone will be noted at the frequency of resonance of as much as 10 db.

A good length of tube to start with, is about 4.9". As with wood working, it is much easier to remove some tube length with a saw or disc / belt sander, than it is to add some length. So, start with a tube a little longer than you expect it will be, then reduce it slowly to attain the length that produces the audio tone you prefer. I like to use a disc / belt sander to square and finish the ends of the tube up nicely.

In Bob's article, he cut a narrow 1/2" ring of 2" PVC pipe to slide into the main tube and hold the loose-fitting speaker he bought at Radio Shack (pn.40-245) in place. By trimming out an 80 degree arc of the ring, it can then be compressed and inserted into the tube to hold the speaker in place. A second ring so constructed can be placed on the other side of the speaker to hold it in place so it does not vibrate undesireably. The connecting wires will pass through the 1/8" or so gap in the end of the ring.

This allows for adjustment of the speaker height in the acoustic column, thereby tuning the frequency of resonance. One end of the tube should be capped with a relective end plate, since the audio waves will bounce against one end and emerge from the opposite end in operation. This can either be done by spacing the tube on a table top with about a 1/8" gap at the bottom, or you can construct an end plate that is spaced 1/8" or so from the tube end with some mounting means such as screws, glued pins, etc.

You can also attach an AC voltmeter to the speaker terminals, and watch for a peak voltage reading at the resonant frequency. If you lack an audio generator, and have to use your rig as an audio source, then you should have any IF or AF filters switched off, or at least at their widest settings, so they do not cause the AC voltage level to be altered by their narrow bandwidth characteristics. This could mask the behavior of the resonant speaker's characteristics.

Lastly, use your ears, and the analog computer that is between them. You will be easily able to detect the resonant frequency, assuming you aren't tone-deaf!

For my resonant speaker, I found an old speaker from a surplus digital alarm clock that fit nicely on the top of a 2" length of Schedule 40 PVC pipe. I used some Blue Elmers glue to secure it to the end (top) of the tube. It's not very pretty, but it works well. After reviving this idea, I may now re-do the whole affair and make it a little more presentable. But go ahead and try it, even if you use crude construction methods. Then you can decide if it works well enough to justify some embellishment.

I want to try this again, with a *much* larger speaker, so I can get room-filling audio for the Fox hunts! =8-o

Give it a try, and see what you think. After the tube / speaker is tuned to perfection, you can paint the assembly to match or contrast with your other gear, or decorate it some other way. It's a lot of fun to experiment with resonant tuned speakers this way. And it doesn't require much investment or time to do it.

I'll bet there are still some of us using these things. After the original thread, I remember a couple of emails that reported there used to be a commercial resonant speaker available, that was tuneable. Such were the days before the advent of DSP, but not many of us can design and build a DSP unit. Even if we could, it would take a *lot* longer to do, and cost *much* more than this simple method. And, a resonant speaker is a passive device - not requiring any operating power. Also, it increases the audio level of your little QRP radio significantly over a non-resonant speaker.

References:

ARRL Hints and Kinks, 13th edition, pages 9-16 - 9-17
QRPp, Volume V, Number 1, Spring 1997, pages 28 - 29, by WB2CWA
QRP-L, October 2, 1996, by me, AB7MY, and a host of other contributors.

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

Date: Sat, 10 Oct 1998 10:48:22 -0600
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-l@Lehigh.EDU
Subject: [21993] 80 METERS
Message-ID: <1.5.4.16.19981010103743.1ecf9c3e@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am assuming this is 3.525MHz and 3.559MHz! Good idea to start turning

our ears towards the top bands with longer hours of darkness.

72 de Niels
VE6NJK/TF3NJ

>Some time back there was a thread that delt with the lack of activity on
>80meters. I found that interesting... just thought I'd let you know that I
>worked HA1TJ, in Hungary last night at about 2315 UTC. 2w to a dipole.. so
>start checking 80 in the early evening hours.. of course i did work him in
>the extra part of the band.. not much dx above 3.025 mhz.. but occassionally
>i do hear German and other European stations at about 3.059 or so..
>see you on the bands
>

Date: Sat, 10 Oct 1998 11:54:14 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, nwq-l@scn.org
Subject: [21994] W5QJR ANTENNA
Message-ID: <5b3ed3c4.361f8326@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I found some notes on the antenna but don't have access to the main article in ANTENNEX.

MY GUESS: It appears that the antenna is a section of RG-58 coax (for low power) that is 1/4 wave long. At the base the radials are connected and it rises to 1/8 wavelength height. The other 1/8 wave runs off at an angle and inulator. The end 1/16 wavelenth of coax appears to be just the center wire with the shield removed. It appears just the standard radial configuration applies here.

It is touted as a great performer and good for areas where antennas need to be *hidden*. Comments??

Can someone please confirm this information or email me details on it if I am missing something? Thanks ALAN KB7MBI

Date: Sat, 10 Oct 1998 10:15:58 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "QRP-l" <qrp-l@Lehigh.EDU>
Subject: [21995] SMT circuit boards
Message-ID: <058d01bdf466$2ffd1a80$a10a5e2c@groucho>

Thought I'd start a thread on SMT circuit board making, especially one-up boards. Bob K. in an earlier post mentioned paint pens. I like this technique, but I'm not very good at making it look neat. Some of the old techniques we used in the early '70's will work great for this. One that comes to mind is wide plastic tape.

Wide tape, as is used to repair vinyl or perhaps even vinyl shelf paper from the hardware store(I haven't tried this, just thought of it), is applied over the entire copper surface of the circuit board. A photocopy of the pattern can be spray mounted on the tape. An Xacto knife is used to cut out the areas you WANT etched. The tape is left behind where you want copper traces. This is fast, much more accurate than paint pens, easy to fix if you make a mistake, and when done cutting the board is ready to dump in the etchant. A PCB pattern really isn't necessary either, you can layout the whole SMT circuit right on the tape and make the traces as you go.

Oh, if you do have to patch in a piece of tape somewhere, butt the tape joint as close as you can and use a little nail polish to seal the joint. Lap joints just don't seem to work.

Well that's my suggestion, anybody got other ideas?
---
73 de KA0GKC Claton Cadmus
cla@mcg.net
MNQRP #1
Minnesota QRP'ers we're looking for you!
Email me or visit this page http://www.qsl.net/mnqrp

Date: Sat, 10 Oct 1998 11:35:45 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, nwq-l@scn.org
Subject: [21996] PORTABLE ANTENNA MAST BASE
Message-ID: <2d8e99b3.361f7ed1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Here is a nice portable heavy duty base for supporting your masts:

http://www.din.or.jp/~myama/ant/base.htm

Alan KB7MBI

Date: Sat, 10 Oct 1998 10:49:01 +0000
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: MichaelN@cycat.com
Cc: QRP-L <QRP-L@Lehigh.EDU>
Subject: [21997] Re: Oxidized Switch Contacts
Message-ID: <361F2D8D.7C68@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Michael Neverdosky wrote:
>
> I used to work as a technical writer and at one time (might still be) the
> official U.S. Air Force style guide listed both inflamable and flamable
> as the prefered usage for something that will burn.
>
> Last I heard flamable is prefered for something which will burn,
> inflamable
> should NOT be used at all.

Think of 'inflammatory remarks' setting off 'flame wars' and you'll know
what 'inflammable' means.

73 from Europe
--
Arjen Raateland
OH2ZAZ

SAS Support
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Sat, 10 Oct 1998 16:43:52 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Subject: [21998] re: Oxidized contacts
Message-ID: <3.0.16.19981010164305.088fc0ae@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At work we use a product called "Blue Shower", followed
by Channel Master "Silicone Contact Shield". In the cable
tv industry, a lot of headend equipment gathers dust and
crispy-critter things that do-in DIP and slide switches in
short order - especially since these switches are used
only occasionally. I've found the two products above to
work very well in my situation.*

I think they catch farr when you put farr to 'um.
This message however, is inflammable. At least
I hope it is.

*Your mileage may vary. This is not a commercial
endorsement. Yada-yada, not affiliated yada yada,
yada.

yada,
Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH / KB4NPI Web - http://www.qsl.net/ka8okh

Date: Sat, 10 Oct 1998 11:26:37 EDT
From: kq0i@juno.com (Mark R Milburn)
To: qrp-l@Lehigh.EDU
Subject: [21999] Texas Armadillo Chase
Message-ID: <19981010.152510.6951.1.KQ0I@juno.com>

While I was "postponed" for vacation, I think the rules for the Texas
Armadillo Chase on October 26/27 might have gotten by me. Would someone
post them again ... or maybe for the first time?

Many thanks.

72/73, Mark KQ0I   Des Moines, Iowa
Packet: kq0i@w0ak.#cia.ia.usa.na
e-mail: kq0i@juno.com

Date: Sat, 10 Oct 1998 15:24:46 -0700
From: astone@erols.com
To: qrp-L@Lehigh.EDU
Subject: [22000] Re: Coherent CW
Message-ID: <361FDEAE.3141@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi - I just wanted to thank everyone who responded to my request for
references and info. I received a tremendous response and am now busily
reviewing all the literature and web sites. I'm always amazed at
what a wonderful resource we have here. My best to all.

72,

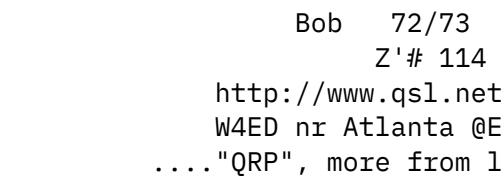
Ron (KA3J)

Date: Sat, 10 Oct 1998 15:39:14 -0400
From: Bob Edwards <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [22001] the Subject line
Message-ID: <361FB7E2.BA35D7CE@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Please remember to use key words in the subject line.

Key words/abbreviations like :
SMT, SMD, PIC, DSP, Solar, HB, K2, QRPTTF, Fox, FS, ...
are very helpful in the email scanning process.

Thanks.



Date: Sat, 10 Oct 1998 10:38:53 EDT
From: Ab7wy@aol.com
To: qrp-l@Lehigh.EDU
Subject: [22002] Re: Art Bell
Message-ID: <c8ab5a24.361f717d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 98-10-10 08:58:54 EDT, you write:

<< You don't need flamed, you need help after listening to
Stern. . . .Curt/K3ivb >>

hahahaha....tell me about it!! i think i need help to begin with, im a low power dxer!!

73....Adam, AB7WY

Date: Sat, 10 Oct 1998 16:14:34 -0400
From: "david r" <elbc@pivot.net>
To: <nkristja@cadvision.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [22003] Re: 80 METERS
Message-ID: <001b01bdf48a$9a7d2980$9e3d62ce@elbc>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

yes 3525 & 3559 darn fingers type what ever they want in the early am , HI
THANKS
dave kc1di

-----Original Message-----
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, October 10, 1998 2:51 PM
Subject: 80 METERS

>
>I am assuming this is 3.525MHz and 3.559MHz! Good idea to start turning
>our ears towards the top bands with longer hours of darkness.
>
>72 de Niels
>VE6NJK/TF3NJ
>
>>Some time back there was a thread that delt with the lack of activity on
>>80meters. I found that interesting... just thought I'd let you know that
I
>>worked HA1TJ, in Hungary last night at about 2315 UTC. 2w to a dipole.. so
>>start checking 80 in the early evening hours.. of course i did work him in
>>the extra part of the band.. not much dx above 3.025 mhz.. but
occassionally
>>i do hear German and other European stations at about 3.059 or so..
>>see you on the bands
>>
>
>
>
>

Date: Sat, 10 Oct 1998 13:40:12 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@Lehigh.EDU>
Subject: [22004] Pacificon 6 Pack Parts, 44 Magnum Prizes
Message-ID: <19981010201625926.AAA334@default>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Guys, I just got a message from Bob Berlyn, he is donating 2 of the soon to be released 44 Magnum kits for the NorCal Building contests. Another example of a qrper stepping forward to support qrp. The 44 Magnum will be one of the featured articles in the Pacificon Compendium, which by the way is at the printers, finally, long story on the printer but won't bore you with it. The 44 Magnum article by Bob and Paul Harden arrived at 3 PM Friday, I was sweating bullets on that one. Paul sent it Wednesday via Express mail, you know the one that they advertise as overnight and sell for $10.75? But they cover themselves and say that if you aren't in a Major city the delivery time might be 2 days. Looks to me like if they take twice the time, they ought to do it for half the price, but oh well. The wait was worth it. Bob and Paul take you through the 44 Magnum give you the history, the reasons why they designed it like they did, and there is a great drawing done by you know who of the circuit board layout and the front panel of the optional case. Plus, Paul will be bringing 11 x 17 fold out schematics with him and I will bring the GBC binder, (the machine that I will use to bind the compendiums) and we will open up each of the 200 compendiums and insert the schematic of the 44 magnum as a centerfold for the compendium. No there is not a picture of Witchess Sandra on the back!!

George Dobbs, G3RJV is perhaps the most famous qrper in the world. He is certainly one of my idols. He is an excellent and entertaining speaker, and he will be talking on the G3RJV Six Pack which is a set of six projects that are designed to be one evening construction projects. NorCal will be providing a set of Six Pack boards to the first 200 qrpers at the forums at no charge. George will have parts kits for all of the projects available in one parts kit. They willl be available at the G-Qrp Club booth which is being shared with Roy Lewallen's Elnec Software booth. George can only bring 100 sets of parts with him due to weight and space constraints, so be sure to stop by and buy your set of parts early. You don't want to miss out. Here is a brief description of each of the projects from the Kanga Web Page.

1, The Plug and Play Transmitter
This is a re-working of the W7ZOI universal transmitter with several new features. A better Low Pass Filter, Full breaking and a VXO too. The whole transmitter is based on a single PCB as part of the six-pack, giving about one watt output on the band supplied. The values given are for four bands, you just chose the band you require. Another FUN project from RJV.

2, The Quick Receiver
A simple and basic circuit formed by a passive mixer of two diodes which feeds an audio amp. The board requires a signal generator and needs about

0.5 volt of signal injection into the input. There is no input tuning though this could be added later. Although built for one specific purpose, it has been a useful piece of test equipment on the RJV work bench for a long time.

3, LED Standing Wave Bridge
The basic circuit is that of a resistive standing wave bridge. Here we use three 50 Ohm resistors, with the antenna load forms part of the Wheatstone Bridge circuit. When the impedance of the load reaches around 50 Ohms and all four arms of the bridge are equal the voltage across the bridge will be null.
The superbright LED will still glow when dissipating just 10 microamps or less. As the antenna is tuned for minimum VSWR the LED will slowly extinguish! The preset provides some sensativity. This unit will work with power levels of less than one watt but do remember to Switch it OUT after tuning and before transmitting.

4, The Diode probe

Most QRP equipment can be built with a minimum of test equipment. The basic need is for a analogue VOM. Digital ones are nice but most of the times we are interested in changes rather than actual measurements. A 'kick'on the meter is often enough!
The next most essential piece of equipment is a diode probe, Don't buy one, after all it's just a 'crystal radio' on a stick! This is a basic peak reading probe for RF signal tracing and measuring. It would be possible to add a series resistance to get an RMS reading probe but the voltages found in QRP work tend to be very low. Supplied with an alligator clip for ground and the other components, a piece of wire will be need for the probe itself and of course the ball point pen (minus ink) for the probe case!
You could even attach the probe to an antenna to hear your favourite local station!

5, The Voltage Monitor
Using an LM3819 dot/bar display driver chip which lights up to ten LED's (in a bar mode) or one of ten LED's (in a DOT mode) in response to an input voltage. The chip contains a voltage divider and ten comparitors that turn on in sequence as the input voltage rises. There is an internal reference voltage source that can be set as high or low reference points on two pins at either end of the chain to set the range.
The battery (or supply) sets the operating voltage. The LM3819 operates from 3 to 18 volts. Connect the unit topreferably a variable voltage supply and set the low voltage preset to, say 10 volts. Then set the high to , perhaps 14.5 volts. Repeating until the unit is accurate. Another useful bit of bench test equipment.

6, Crystal Checker
Quartz crystals and crystal oscillators are very common in amateur circles,

this unit provides a method where they can be tested, but do they 'osclle'? Do the crystals fire up when in use? What is the frequency of operation? This unit provides the method of testing crystals and also of connecting a counter to the unit. Just connect the crystal and press the button! If the LED glows the crystal is oscillating. A neat little idea that should be in every builders shack!

Please note that if you are not able to attend Pacificon, you can order the G3RJV Six Pack kit which includes a manual, all boards, and all parts for the boards from either Kanga or Kanga US.

Kanga UK is running a special now:

NORMAL PRICE 35.00 but.. first 100 units for ...

The RJV Six Pack for just 25.00
plus shipping/handling
(Shipping to the UK is 2.00, EEC Countries 3.00, all others 5.00)

Here is how to contack Kanga:
Email:
Sales@kanga.demon.co.uk

Address:
Kanga Products
Seaview House, Crete Road East
Folkestone Kent. CT18 7EG. UK

Web Site:
http://www.kanga.demon.co.uk/index.htm

US list members will want to contact Bill Kelsey at:

Email:
kanga@bright.net

Web Page:
http://www.bright.net/~kanga/kanga/

The above information is provided to those who have been asking for information on how to obtain the G3RJV Six-Pack.

Everything looks good. All of the speakers are confirmed. George Dobbs will arrive in the US on Monday, and will get to Concord Friday evening. Ade Weiss gets in at 7PM Friday night, and Bob Tellefsen will be picking him up and delivering him to the hotel. I am picking up Paul (He must be watched, as he has a lot of trouble getting to and from the hotel, grin.) Bill Jones will be there Friday, as will Dave Fifield and Roy Lewallen.

Roy is coming down with George and JoAnna Dobbs. Brian Kassel will arrive Friday morning and drive over with Dave Yarnes. It looks like Brian, Paul, Dave, and Bill will all make it in time for the ribs at Tony Roma's Friday night. Hope to see you there. 72, Doug, KI6DS

Date: Sat, 10 Oct 1998 13:31:00 -0700
From: "KE6VHM Frank" <ke6vhm@earthlink.net>
To: <Shephed@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [22005] Re: I got my Extra!
Message-ID: <003a01bdf48e$3a732540$03000004@f>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Congrats Dan - great job
Commercial next - only a written test away - you know.
72 de Frank KE6vhm

>Woo Hoo, I'm doing the Happy Dance!
>
>I made Extra this morning!

Date: Sat, 10 Oct 1998 14:52:32 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@Lehigh.EDU>
Subject: [22006] G3RJV Six Pack Parts Kit Price
Message-ID: <19981010212834540.AAA327@default>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I forgot to note that the price for the G3RJV Parts kit for the Six Pack boards that NorCal will be giving away at Pacificon is $30. Remember that George only has 100 available, and that they will be available at the G-QRP booth (Actually Roy Lewallen's W7EL Software booth). 72, Doug, KI6DS

Date: Sat, 10 Oct 1998 14:58:15 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@Lehigh.EDU>
Subject: [22007] KI6DS Not in Inner Circle of ARCI
Message-ID: <19981010213420197.AAA90@default>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Mike Czyhajewski posted a message the other day about his and ARCI's stand on QRP organizations. In the heading of the message was an address list with my call as the first address. The reason that it was there was because Mike C. copied the message to me. He made reference to the inner circle of arkie in his posting, and some may have inferred that because of my address being in the header, that I am among the members of that group. I am not on or in the "Inner Circle of ARCI". Just wanted to clarify that one. I am member number 7296. 72, Doug, KI6DS.

Date: Sat, 10 Oct 1998 14:52:01 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: rattray@gpfn.sk.ca
Cc: qrp-l@Lehigh.EDU
Subject: [22008] FOX: New Fox Team
Message-ID: <199810102152.OAA05257@usr06.primenet.com>

Howdy Bruce (and Folks),

Bob, Randy and I (formerly of the mighty Team AB7*T*) are proud to announce the formation of the most formidable team of Hounds since Sherlock Holmes bumped into the pooches of the Baskervilles.

Beware of Team Apathy! That's right! We may or may not be in the Hunt on any given night. We just don't know!

All will cower in fear. Will we actually show up and dominate the pack? Or will we end up on the couch with

a big bag of Cheesy Poofs and generic root beer? You'll
never know until it happens! Or doesn't happen.

Fox Team Stats

Name: Team Apathy
Members: Bob (AB7ST), Randy (K7TQ, Ex-AB7TK), Joe (AB7TT)
Motto: "Whatever..."
Score: What score? There's a score? Who's got the Cheesy Poofs?

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

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Date: Sat, 10 Oct 1998 17:53:14 -0700
From: ka1iic <ka1iic@ime.net>
To: gsurrency@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [22009] Re: Flaming: STOP
Message-ID: <3620017A.4035@ime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Amen Brother, Amen!

73
Vince
ka1iic
-.--.

 Gary L Surrency wrote:
>
> OK. I've had quite enough of this.
>
> Those of you who feel it necessary to continue this flame war, GET IT OFF
> THIS LIST AND KEEP IT PRIVATE! Don't keep adding comments and fuel to the
> fire.
>
> Most of us would just like to get on with polite discussions of QRP

> related topics. If you had read the QRP-L FAQ file, you would know that.
>
> With a diverse audience of over 2000 people worldwide on this list, it
> would make sense to try and maintain some civility in your posts. Please
> don't force Chuck, QRP-L #1 to intervene in this matter. I'm sure he has
> better things to do with his time, as do I.
>
> Must be delayed effects from the gamma-ray burst from last August's
> magnetron event or something. Art Bell, where are you when we need you?
> =8^o
>
> 72, and now let's return to normal QRP-L discussion.....
>
> Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)
>
> _____
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at http://www.juno.com
> or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 10 Oct 1998 18:30:46 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, nwq-l@scn.org
Subject: [22010] SMALL HB GEN SET INFO SOURCE
Message-ID: <c581434c.361fe016@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I found this post discussing making of small generators. Alan KB7MBI

From: mjones@nbserv2.dseg.ti.com (Marty Jones)
Subject: PM Generator Sources; was Re: New to the list.

One place here in the US that seems to have a very good choice
of surplus (usually new, but not expensive) PM motors for use
as generators is Surplus Center in Lincoln, Nebraska. Their
current sale flyer lists the one that I used in my windmill
for (I think) about $32. It is a 48-volt low-rpm "servo motor".
The advantage of these over some other DC motors is that they
have a very large number of poles, which may minimize magnetic
cogging of the rotor, and also produces DC with a little less

ripple. This motor is very good for a 100-watt or so output
for charging 12-volt batteries at around 500 RPM.

I have two of these, and can furnish some data of performance
vs RPM and load. I took the data by coupling the two motor shafts
together and driving one with a variable power supply in my
lab to set the generator RPM, then varying the electrical load
at each RPM. I found that, at a given shaft RPM, I could fit my
data with a Thevenin equivalent circuit, having an open-circuit
voltage of 0.0364 volts per RPM and 1.24 ohms series impedance.

Of course, any DC motor that can be used as a generator will
have brushes and a commutator, which is a wear issue, but I didn't
worry about that in my application, which involves temporary setups
of a week or less.

By the way, Surplus Center is also the place I mentioned a few weeks
ago having a motor/generator "rotary converter" from 24 VDC to 115
VAC. I think someone on this list has ordered one. Not a bad deal,
for $69.99. Surplus Center also stocks at least one of the Southwest
Windpower units, but as I recall the price was not as good as you
can get from some other mail-order suppliers.

End of QRP-L Digest 1240
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